

## PP / PS Extrusion Line



**Compact - Economy**

**diamat.**  
maschinenbau

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# Extruder - Overview

100% Made in Germany - since 1976

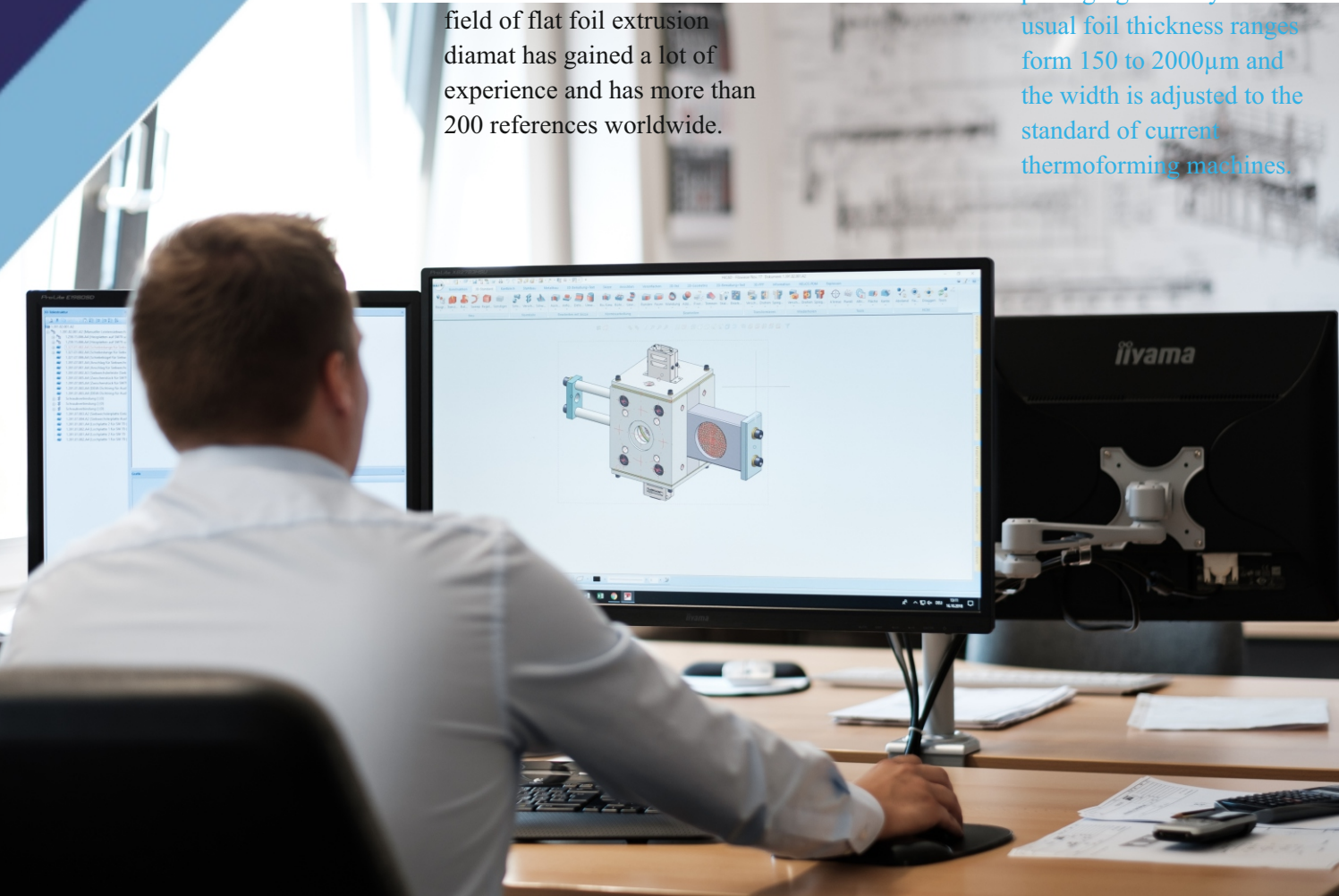
For more than 45 years diamat Maschinenbau GmbH has been building machines, equipment and tools to produce, process and recycle plastics. Especially in the field of flat foil extrusion diamat has gained a lot of experience and has more than 200 references worldwide.

Our main focus is the production of flat foil extrusion lines for the production of thermoformable sheets used in the food packaging industry. The usual foil thickness ranges from 150 to 2000µm and the width is adjusted to the standard of current thermoforming machines.

All plants are designed and engineered to the latest state of the art. The whole production process takes place at diamat using high-quality German components to ensure best performance. The final result is a line 100% Made in Germany.

Thanks to a young and dedicated team and most modern equipment, diamat is optimally prepared for future challenges.

Type	Output PP [kg/h]	Output PS [kg/h]
DE 70	420	500
DE 85	500	580
DE 100	600	700
DE 125	800	930
DE 150	1200	1400

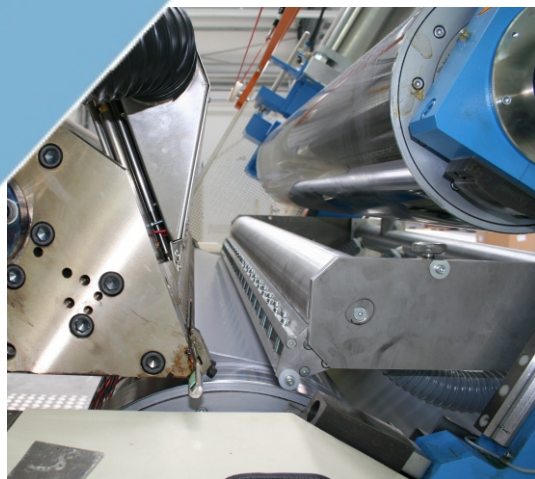


During the last years diamat has developed solutions for the increasing problem of plastic waste. Besides inventions for the recycling industry, diamat has grown to a world technical market leader in the area of PP & A-PET plant engineering for the production of highly clear foils from up to 100% of flakes rework. Usually these sheets are used in the food packing industry.



# turnkey ready extrusion line to produce PP / PS sheet

also available as an inline version



air knife



Co-ex

## Optional Equipment:

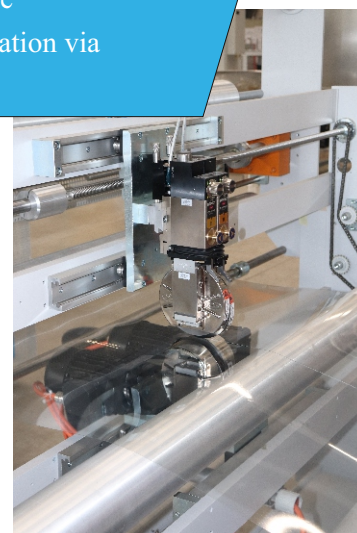
- co-extruder ABA production
- continuously operating screen-changer
- ABA-feedblock
- static mixer
- automatic roller cleaning system
- air knife
- inline thickness measuring device
- coating system for liquid antiblock / antifog
- center slitter
- lamination system
- edge trim grinder
- spare parts package
- telemetric data communication via
- Industry 4.0 / IoT



thickness measuring device

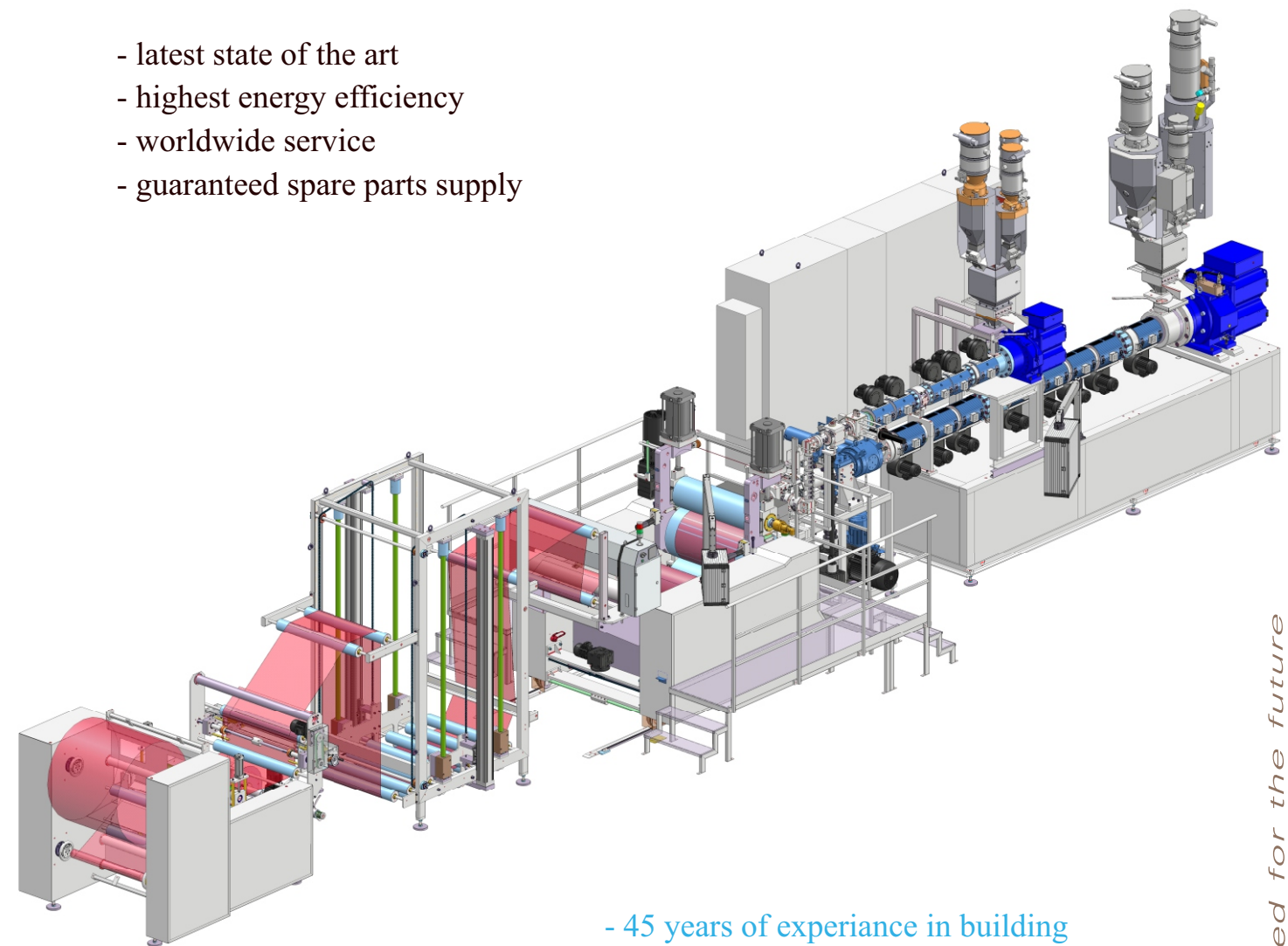


diamat visualisation



center slitter

- latest state of the art
- highest energy efficiency
- worldwide service
- guaranteed spare parts supply



- 45 years of experience in building extrusion lines
- 100% Made in Germany
- shortest delivery times
- top class engineering

# Standard Equipment

Highest quality at the best price

## Elektro-mechanic 2-shaft-winder

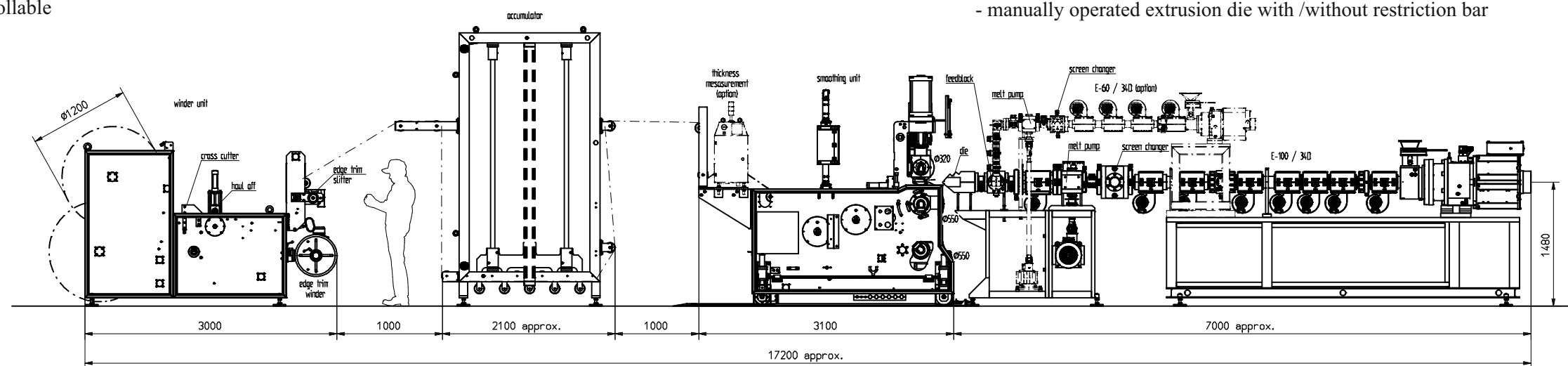
- 2 AC-driven winding stations
- winder shaft 76 mm (3 inch)
- winder tension individually controllable
- 3 pneumatic expanding shafts
- max. reel diameter 1200 mm
- cross-cutting via guillotine cutter

## pneumatic sheet accumulator

- to simplify and protect the reel changing process
- pneumatically controlled sheet tension (adjustable)
- safe thread-in from bottom side

## Single screw extruder

- AC direct screw drive
- up to 100% regrind possible
- 34D screw length
- screw and barrel with long-term wear protection hardening
- heating and cooling zones with air isolation
- extruder control- and visualisation system
- discontinuous hydraulic working screen-changer
- frequency controlled melt pump
- dummy channel to have possibility to retrofit a static mixer
- manually operated extrusion die with /without restriction bar



## Standards

- 3 phases with neutral and grounding conductor
- 3×400V, 50 Hz (3×380V, 60Hz)
- colour to request free to RAL
- operator friendly platforms
- melt leading channels in high alloyed stainless chrome steel
- modular concept

## Take-off and longitudinal trimming

- longitudinal cutter with circular blades
- AC driven
- 2 auxiliary winding stations for the edge trims
- width adjustment possible while the machine is running
- AC frequency controlled take-off system
- haul-off rollers with wear-resistant industrial rubber coating

## 3-roller polishing stack

- vertical arrangement
- pneumatic closing unit
- sheet thickness 300 ... 1800 µm
- AC single drive of the rollers
- manual roller gap setting with digital reading
- roller single temperature control 25-70°C
- 2 driven after cooling rolls
- length adjustment motor-driven on linear rail
- height adjustment in inching operation, motor-driven